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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/884,767A

DATE: 10/02/2001
TIME: 09:32:21

Input Set : A:\DYX12seq.txt
Output Set: N:\CRF3\10022001\I884767A.raw

```
 3 <110> APPLICANT: DYAX Corp.
 4       Ley, Arthur C.
 5       Luneau, Christopher J.
 6       Ladner, Robert C
 8 <120> TITLE OF INVENTION: NOVEL ENTEROKINASE CLEAVAGE SEQUENCES
10 <130> FILE REFERENCE: DYX-012.1 US, DYX-012.1 PCT
12 <140> CURRENT APPLICATION NUMBER: 09/884,767A
13 <141> CURRENT FILING DATE: 2001-06-19
15 <150> PRIOR APPLICATION NUMBER: US 09/597,321
16 <151> PRIOR FILING DATE: 2000-06-19
18 <160> NUMBER OF SEQ ID NOS: 217
20 <170> SOFTWARE: PatentIn version 3.1
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 7
24 <212> TYPE: PRT
25 <213> ORGANISM: Artificial Sequence
27 <220> FEATURE:
28 <223> OTHER INFORMATION: synthetic enterokinase cleavage sequence
30 <220> FEATURE:
31 <221> NAME/KEY: MISC_FEATURE
32 <222> LOCATION: (1)..(1)
33 <223> OTHER INFORMATION: Xaa1 is an optional amino acid which, if present, is Ala,
Asp, Gl
34       u, Phe, Gly, Ile, Asn, Ser, or Val
37 <220> FEATURE:
38 <221> NAME/KEY: MISC_FEATURE
39 <222> LOCATION: (2)..(2)
40 <223> OTHER INFORMATION: Xaa2 is an optional amino acid which, if present, is Ala,
Asp, Gl
41       u, His, Ile, Leu, Met, Gln or Ser
44 <220> FEATURE:
45 <221> NAME/KEY: MISC_FEATURE
46 <222> LOCATION: (3)..(3)
47 <223> OTHER INFORMATION: Xaa3 is an optional amino acid which, if present, is Asp,
Glu, Ph
48       e, His, Ile, Met, Asn, Pro, Val, or Trp
51 <220> FEATURE:
52 <221> NAME/KEY: MISC_FEATURE
53 <222> LOCATION: (4)..(4)
54 <223> OTHER INFORMATION: Xaa4 is Ala, Asp, Glu, or Thr
57 <220> FEATURE:
58 <221> NAME/KEY: MISC_FEATURE
59 <222> LOCATION: (7)..(7)
60 <223> OTHER INFORMATION: Xaa7 is any amino acid
63 <400> SEQUENCE: 1
65 Xaa Xaa Xaa Xaa Asp Arg Xaa
66 1                 5
69 <210> SEQ ID NO: 2
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W--> (at line 65)

70 <211> LENGTH: 7
71 <212> TYPE: PRT

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```
 72 <213> ORGANISM: Artificial Sequence
 74 <220> FEATURE:
 75 <223> OTHER INFORMATION: synthetic enterokinase cleavage sequence
 77 <220> FEATURE:
 78 <221> NAME/KEY: MISC_FEATURE
 79 <222> LOCATION: (1)..(1)
 80 <223> OTHER INFORMATION: Xaa1 is an optional amino acid which, if present, is Asp or
Glu
 83 <220> FEATURE:
 84 <221> NAME/KEY: MISC_FEATURE
 85 <222> LOCATION: (2)..(2)
 86 <223> OTHER INFORMATION: Xaa2 is an optional amino acid which, if present, is Val
 89 <220> FEATURE:
 90 <221> NAME/KEY: MISC_FEATURE
 91 <222> LOCATION: (3)..(3)
 92 <223> OTHER INFORMATION: Xaa3 is an optional amino acid which, if present, is Tyr
 95 <220> FEATURE:
 96 <221> NAME/KEY: MISC_FEATURE
 97 <222> LOCATION: (4)..(4)
 98 <223> OTHER INFORMATION: Xaa4 is Asp, Glu or Ser
101 <220> FEATURE:
102 <221> NAME/KEY: MISC_FEATURE
103 <222> LOCATION: (7)..(7)
104 <223> OTHER INFORMATION: Xaa7 is any amino acid
107 <400> SEQUENCE: 2
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W--> 109 Xaa Xaa Xaa Xaa Glu Arg Xaa
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110 1               5
113 <210> SEQ ID NO: 3
114 <211> LENGTH: 7
115 <212> TYPE: PRT
116 <213> ORGANISM: Artificial Sequence
118 <220> FEATURE:
119 <223> OTHER INFORMATION: synthetic enterokinase cleavage sequence
121 <220> FEATURE:
122 <221> NAME/KEY: MISC_FEATURE
123 <222> LOCATION: (7)..(7)
124 <223> OTHER INFORMATION: Xaa is any amino acid
127 <400> SEQUENCE: 3
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W--> 129 Asp Ile Asn Asp Asp Arg Xaa
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130 1               5
133 <210> SEQ ID NO: 4
134 <211> LENGTH: 7
135 <212> TYPE: PRT
136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: synthetic enterokinase cleavage sequence
141 <220> FEATURE:
142 <221> NAME/KEY: MISC_FEATURE
143 <222> LOCATION: (7)..(7)
144 <223> OTHER INFORMATION: Xaa is any amino acid
```

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                    RAW SEQUENCE LISTING              DATE: 10/02/2001
                    PATENT APPLICATION:  US/09/884,767A    TIME: 09:32:21

                    Input Set : A:\DYX12seq.txt
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       147 <400> SEQUENCE: 4
W--> 149 Gly Asn Tyr Thr Asp Arg Xaa
       150 1                5
       153 <210> SEQ ID NO: 5
       154 <211> LENGTH: 6
       155 <212> TYPE: PRT
       156 <213> ORGANISM: Artificial Sequence
       158 <220> FEATURE:
       159 <223> OTHER INFORMATION: streptavidin binding sequence
       161 <400> SEQUENCE: 5
       163 Cys His Pro Gln Phe Cys
       164 1                5
       167 <210> SEQ ID NO: 6
       168 <211> LENGTH: 4
       169 <212> TYPE: PRT
       170 <213> ORGANISM: Artificial Sequence
       172 <220> FEATURE:
       173 <223> OTHER INFORMATION: streptavidin binding sequence
       175 <400> SEQUENCE: 6
       177 His Pro Gln Phe
       178 1
       181 <210> SEQ ID NO: 7
       182 <211> LENGTH: 9
       183 <212> TYPE: PRT
       184 <213> ORGANISM: Artificial Sequence
       186 <220> FEATURE:
       187 <223> OTHER INFORMATION: streptavidin binding sequence
       189 <400> SEQUENCE: 7
       191 Cys His Pro Gln Phe Cys Ser Trp Arg
       192 1                5
       195 <210> SEQ ID NO: 8
       196 <211> LENGTH: 6
       197 <212> TYPE: PRT
       198 <213> ORGANISM: Artificial Sequence
       200 <220> FEATURE:
       201 <223> OTHER INFORMATION: synthetic enterokinase cleavage sequence
       203 <220> FEATURE:
       204 <221> NAME/KEY: MISC_FEATURE
       205 <222> LOCATION: (6)..(6)
       206 <223> OTHER INFORMATION: Xaa is Ile (natural trypsinogen site) or any amino acid
(syntheti
       207        c cleavage sites)
       210 <400> SEQUENCE: 8
W--> 212 Asp Asp Asp Asp Lys Xaa
       213 1                5
       216 <210> SEQ ID NO: 9
       217 <211> LENGTH: 86
       218 <212> TYPE: PRT
       219 <213> ORGANISM: Artificial Sequence
       221 <220> FEATURE:
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RAW SEQUENCE LISTING   DATE: 10/02/2001
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Input Set : A:\DYX12seq.txt
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222 <223> OTHER INFORMATION: exogenous display polypeptide of a phage display library
224 <220> FEATURE:
225 <221> NAME/KEY: MISC_FEATURE
226 <222> LOCATION: (43)..(55)
227 <223> OTHER INFORMATION: X is any amino acid except Cys
230 <400> SEQUENCE: 9
232 Ala Glu Trp His Pro Gln Phe Ser Ser Pro Ser Ala Ser Arg Pro Ser
233 1               5                   10                  15
236 Glu Gly Pro Cys His Pro Gln Phe Pro Arg Cys Tyr Ile Glu Asn Leu
237             20              25                  30
```
W--> 240 Asp Glu Phe Arg Pro Gly Gly Ser Gly Gly Xaa Xaa Xaa Xaa Xaa Xaa
```
241         35              40                  45
```
W--> 244 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Ala Gln Ser Asp Gly Gly Gly Ser
```
245     50              55              60
248 Thr Glu His Ala Glu Gly Gly Ser Ala Asp Pro Ser Tyr Ile Glu Gly
249 65              70              75                  80
252 Arg Ile Val Gly Ser Ala
253             85
256 <210> SEQ ID NO: 10
257 <211> LENGTH: 7
258 <212> TYPE: PRT
259 <213> ORGANISM: Artificial Sequence
261 <220> FEATURE:
262 <223> OTHER INFORMATION: synthetic enterokinase cleavage sequence
264 <400> SEQUENCE: 10
266 Tyr Glu Trp Gln Asp Arg Thr
267 1               5
270 <210> SEQ ID NO: 11
271 <211> LENGTH: 7
272 <212> TYPE: PRT
273 <213> ORGANISM: Artificial Sequence
275 <220> FEATURE:
276 <223> OTHER INFORMATION: synthetic enterokinase cleavage sequence
278 <400> SEQUENCE: 11
280 Asn Ser Ile Lys Asp Arg Val
281 1               5
284 <210> SEQ ID NO: 12
285 <211> LENGTH: 7
286 <212> TYPE: PRT
287 <213> ORGANISM: Artificial Sequence
289 <220> FEATURE:
290 <223> OTHER INFORMATION: synthetic enterokinase cleavage sequence
292 <400> SEQUENCE: 12
294 Ala Lys Ala Thr Glu Arg His
295 1               5
298 <210> SEQ ID NO: 13
299 <211> LENGTH: 7
300 <212> TYPE: PRT
301 <213> ORGANISM: Artificial Sequence
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RAW SEQUENCE LISTING   DATE: 10/02/2001
PATENT APPLICATION: US/09/884,767A   TIME: 09:32:21

Input Set : A:\DYX12seq.txt
Output Set: N:\CRF3\10022001\I884767A.raw

303 <220> FEATURE:
304 <223> OTHER INFORMATION: synthetic enterokinase cleavage sequence
306 <400> SEQUENCE: 13
308 Leu Gly Lys Val Asp Arg Thr
309 1   5
312 <210> SEQ ID NO: 14
313 <211> LENGTH: 7
314 <212> TYPE: PRT
315 <213> ORGANISM: Artificial Sequence
317 <220> FEATURE:
318 <223> OTHER INFORMATION: synthetic enterokinase cleavage sequence
320 <400> SEQUENCE: 14
322 Gly Gly Met Ala Asp Lys Phe
323 1   5
326 <210> SEQ ID NO: 15
327 <211> LENGTH: 7
328 <212> TYPE: PRT
329 <213> ORGANISM: Artificial Sequence
331 <220> FEATURE:
332 <223> OTHER INFORMATION: synthetic enterokinase cleavage sequence
334 <400> SEQUENCE: 15
336 Gly His Trp Leu Asp Lys Asn
337 1   5
340 <210> SEQ ID NO: 16
341 <211> LENGTH: 7
342 <212> TYPE: PRT
343 <213> ORGANISM: Artificial Sequence
345 <220> FEATURE:
346 <223> OTHER INFORMATION: synthetic enterokinase cleavage sequence
348 <400> SEQUENCE: 16
350 Asn Lys Ala Lys Asp Arg Met
351 1   5
354 <210> SEQ ID NO: 17
355 <211> LENGTH: 7
356 <212> TYPE: PRT
357 <213> ORGANISM: Artificial Sequence
359 <220> FEATURE:
360 <223> OTHER INFORMATION: synthetic enterokinase cleavage sequence
362 <400> SEQUENCE: 17
364 Ser Glu Asn Phe Asp Lys Asn
365 1   5
368 <210> SEQ ID NO: 18
369 <211> LENGTH: 7
370 <212> TYPE: PRT
371 <213> ORGANISM: Artificial Sequence
373 <220> FEATURE:
374 <223> OTHER INFORMATION: synthetic enterokinase cleavage sequence
376 <400> SEQUENCE: 18
378 Leu Asp Trp Glu Asp Arg Ala

VERIFICATION SUMMARY
PATENT APPLICATION: **US/09/884,767A**

DATE: 10/02/2001
TIME: 09:32:22

Input Set : **A:\DYX12seq.txt**
Output Set: **N:\CRF3\10022001\I884767A.raw**

```
L:65 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:2988 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204
L:3008 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:205
L:3055 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206
L:3099 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:207
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